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Elastomeric compsn. for prepn. of tyre treads having low hysteresis properties - comprises elastomeric mixture derived from polymerisation of monovinylarene with conjugated diene and natural rubber, polybutadiene etc., silica and carbon black

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 763564	A2	19970319	EP 96202440	A	19960902	199716 B
JP 9118785	A	19970506	JP 96244744	A	19960917	199728
CA 2184744	A	19970315	CA 2184744	A	19960903	199729
KR 97015648	A	19970428	KR 9639269	A	19960911	199817
BR 9603760	A	19980602	BR 963760	A	19960913	199829
TW 326460	A	19980211	TW 96110189	A	19960821	199836
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US 99431223 A 19991101

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Patent Details:

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JP 9118785	A	11 C08L-015/00
CA 2184744	A	C08L-009/06
KR 97015648	A	C08L-009/00
BR 9603760	A	C08L-025/10
TW 326460	A	C08L-011/00
IT 1277581	B	C08L-000/00
MX 9603979	A1	C08L-053/02
KR 204129	B1	C08L-009/00
CN 1145919	A	C08L-009/06
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DE 69612155	E	C08L-015/00	Based on patent EP 763564
ES 2155165	T3	C08L-015/00	Based on patent EP 763564
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US 20030120007	A1	C08F-004/32	Cont of application US 96709150

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Abstract (Basic): EP 763564 A

Elastomeric compsn. vulcanisable with S (donors) useful for the prepn. of tyre treads comprises: (a) 100 pts. an elastomeric mixt. comprising 20-100%wt. an elastomer obtained by polymerisation of a mono-vinyl-arene with a conjugated diene and 80-0%wt. natural rubber, polybutadiene or other diolefin elastomers; (b) 10-150 pts. silica per 100 pts. (a); and (c) 0-150 pts. C black per 100 pts.]The elastomeric mixt. (a) has an epoxidation deg. defined by 0.7-8.0% moles epoxidated double bonds w.r.t. the initial number of moles of diene double bonds.]Also claimed are tyre treads obtd. by vulcanising the above elastomeric compsns. with S (donors) in the presence of accelerators and vulcanisation additives at 130-180 (140-170) deg. C.

USE - Compsns. are useful for prepn. of tyre treads.

ADVANTAGE - Vulcanised prods. have low hysteresis (esp. at very high frequency stress) to reduce fuel consumption, good tensile properties, good wear resistance, good adhesion on wet surfaces and good abrasion resistance.

Dwg.0/0

Title Terms: ELASTOMER; COMPOSITION; PREPARATION; TYRE; TREAD; LOW; HYSTERESIS; PROPERTIES; COMPRISE; ELASTOMER; MIXTURE; DERIVATIVE; POLYMERISE; MONO; VINYL; ARENE; CONJUGATE; DIENE; NATURAL; RUBBER;

POLYBUTADIENE; SILICA; CARBON; BLACK

Derwent Class: A11; A12; A95; E11; Q11

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01 B114 B702 B720 B831 C108 C800 C802 C803 C804 C805 C807 M411 M782
M903 M904 M910 Q020 Q130 R01694-M

Polymer Indexing (PS):

<01>

001 018; H0022 H0011; G0102-R G0022 D01 D12 D10 D18 D51 D53; G0817-R
D01 D51 D54 D56; H0124-R; L9999 L2391; L9999 L2073; M9999 M2073;
M9999 M2175; P0464-R D01 D22 D42 F47; P1741

002 018; H0022 H0011; G0102-R G0022 D01 D12 D10 D18 D51 D53; R00806
G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84; H0124-R; L9999
L2391; L9999 L2073; M9999 M2073; M9999 M2175; P0464-R D01 D22 D42
F47; P0328 ; P1741

003 018; H0022 H0011; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
D51 D53 D58 D76 D88; G0817-R D01 D51 D54 D56; H0124-R; L9999 L2391;
L9999 L2073; M9999 M2073; M9999 M2175; P0464-R D01 D22 D42 F47;
P1741

004 018; H0022 H0011; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
D51 D53 D58 D76 D88; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56
D58 D84; H0124-R; L9999 L2391; L9999 L2073; M9999 M2073; M9999
M2175; P0464-R D01 D22 D42 F47; P0328 ; P1741 ; P0351 ; P0362

005 018; R24073 D01 D02 D03 D12 D10 D51 D53 D59 D85 P0599 H0124 B5061;
M9999 M2175; L9999 L2391; L9999 L2073; M9999 M2073

006 018; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84; H0000;
H0124-R; M9999 M2175; L9999 L2391; L9999 L2073; M9999 M2073; P0328
; P0339

007 018; G0817-R D01 D51 D54; H0000; H0011-R; H0124-R; M9999 M2175;
L9999 L2391; L9999 L2073; M9999 M2073

008 018; ND04; B9999 B4002 B3963 B3930 B3838 B3747; K9745-R; Q9999
Q9256-R Q9212; B9999 B4171 B4091 B3838 B3747; B9999 B5287 B5276;
B9999 B5367 B5276; K9449

009 018; R01694 D00 F20 O- 6A Si 4A; R05085 D00 D09 C- 4A; A999 A237;
A999 A771

010 018; D01 D11 D10 D50 D63 D84 D85 D86 D87 D88 D89 D90 D91 D92 D93
D94 D95 F00 F01 F02 D26 D12 D53 D51 D58 D24 D22 D77 D41 D43 F15 D32
F08 F07 F04 F47 F72 F87 F85 F86 F67 O- 6A N- 5A D23 D73 D42 D31 Cl
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